

Laser Treatment of Benign Cutaneous Vascular Lesions

TINA ALSTER, M.D., Washington Institute of Dermatologic Surgery, Washington, D.C.

JOON TIAN TAN, M.D., Laser Research Laboratory, Boston City Hospital, Boston, Massachusetts

Benign cutaneous vascular lesions have been treated with a wide array of modalities. Lasers are a comparatively new form of treatment for cutaneous blood vessel abnormalities. Initially, results following laser treatment were disappointing, primarily because of widespread thermal injury to surrounding normal tissue. Recent developments in laser technology and the introduction of the tunable dye laser offer the ability to selectively target laser energy at specific chromophores such as oxyhemoglobin. The technique of selective photothermolysis provides successful treatment of benign vascular lesions with minimal damage to adjacent structures.

Although benign cutaneous vascular lesions such as hemangiomas and vascular malformations are rarely life-threatening, treatment is often sought when organ

function is compromised or when the lesion darkens in color, bleeds or imposes a psychologic burden on the patient.¹ Various treatments have been used to remove such lesions, including surgery, ionizing radiation, cryotherapy, sclerotherapy, tattooing with flesh-colored pigments, dermabrasion, electrocautery and intralesional or systemic steroids.²⁻⁹

Scarring has been associated with most, if not all, of these treatments. Each modality also carries specific potential disadvantages. Surgery is associated with the possibility of postoperative complications such as infection and hemorrhage. Complications of radiation therapy include skin necrosis, epiphyseal damage, cataracts, breast hypoplasia, lymphoma, thyroid and testicular carcinoma, and other malignancies.^{10,11} In spite of serious systemic side effects, high-dose intralesional or systemic steroids have been successfully used to treat certain rapidly enlarging hemangiomas that threaten vital organs such as the eyes. Until the introduction of lasers, the limitations imposed by these different therapies often made cosmetic camouflage with opaque makeup, such as Covermark® and Dermablend®, the only safe and acceptable treatment.

Lasers have been used in the treatment of benign cutaneous vascular lesions since the mid-1960s. A ruby laser, with emission in the red wavelength at 694 nm, was the first laser used to eradicate lesions such as port-wine stains.¹² Because of the relatively low absorption advantage of hemoglobin at this wavelength (Figure 1), the ruby laser lacks vascular specificity, and nonspecific thermal injury of the irradiated site results.

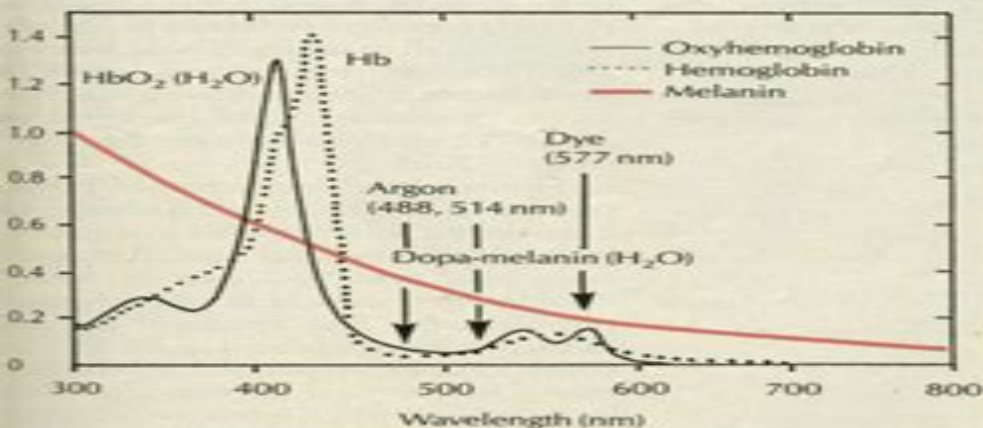


FIGURE 1. Absorption spectrum of oxyhemoglobin, hemoglobin and melanin. emission wavelengths of dye and argon lasers.

Management And Treatment Of Benign Cutaneous Vascular Lesions

Oon T. Tan



Management And Treatment Of Benign Cutaneous Vascular Lesions:

Management and Treatment of Benign Cutaneous Vascular Lesions Oon T. Tan, 1992 This book deals with a new laser technology which is particularly suited to removal of skin blemishes and benign lesions about the face trunk and limbs Since the technology changes rapidly and pulse dye lasers are the newest and most controllable modality available they allow precise control of depth of incision and tissue damage The clinical experience and research data in this book derive from the Laser Center at Boston University USA which is recognized worldwide Manual of Cutaneous Laser Techniques Tina S. Alster, 2000 Now in its thoroughly revised updated Second Edition this manual is a practical how to guide to the latest techniques in cutaneous laser surgery It provides step by step instructions on setting up a laser practice evaluating patients preoperatively treating specific skin problems preventing and managing complications and postoperative skin care and maintenance Complementing the text are 116 full color photographs all of them new to this edition New chapters in this edition cover laser assisted hair removal and Erbium YAG laser resurfacing All other chapters have been revised to reflect state of the art innovations and equipment Appendices provide up to date directories of laser manufacturers and treatment related products Principles and Practices in Cutaneous Laser Surgery Arielle Kauvar, George Hruza, 2005-09-20 Will full color photographs throughout this reference demonstrates and assesses various technologies and methods to effectively perform laser treatments for a variety of cutaneous disorders emphasizing the selection of the appropriate laser for each clinical situation practical treatment guidelines and the avoidance of complications in the practice Roenigk & Roenigk's Dermatologic Surgery Randall K. Roenigk, Henry H. Roenigk, 1996-01-23 Maintaining and updating the many features that made the First Edition so popular the Second Edition of this highly lauded reference surveys new and established dermatologic surgical procedures presenting a unique all encompassing approach to dermatologic surgery **Current Therapy In Oral and Maxillofacial Surgery** Shahrokh C. Bagheri, Bryan Bell, Husain Ali Khan, 2011-09-19 Written by expert surgeons and educators Current Therapy in Oral and Maxillofacial Surgery covers the latest treatment strategies surgical techniques and potential complications in OMS Emphasizing an evidence based approach it covers all 12 subspecialties of OMS addressing topics from surgical principles to oral surgery anesthesia cranio maxillofacial trauma surgery head and neck surgery maxillofacial reconstructive surgery orthognathic surgery pediatric craniofacial surgery including cleft lip and palate temporomandibular joint disorders facial plastic surgery including rhinoplasty and facelifts obstructive sleep apnea and oral and maxillofacial infections At the end of each chapter Pearls and Pitfalls summarize the authors insight recommendations and experience on that topic Editor Dr Shahrokh Bagheri is a noted professor researcher and speaker on OMS and he leads an expert author team including Dr R Bryan Bell and Dr Husain Ali Khan to help you master and apply the latest advances in OMS More than 1 200 full color photos and 200 color line drawings illustrate concepts and provide visual guidance in clinical areas Comprehensive sections and chapters represent essential topics the newest advances and controversial topics Clinical

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Lasers in Dermatology and Medicine Keyvan Nouri, 2011-09-06
Laser technology is constantly evolving and progressing The use of laser therapy is vastly expanding and for this reason a medical book of this magnitude is necessary Lasers and Light Therapy includes an up to date comprehensive look at lasers and light therapy not only in the field of Cutaneous Laser Surgery but in other medical specialties as well Lasers and Energy Devices for the Skin Mitchel P. Goldman, Richard E. Fitzpatrick, E. Victor Ross, Suzanne L. Kilmer, Robert A.

Weiss, 2013-05-21 Rapid technical developments with lasers and other energy devices have continued over recent years both in the different types of devices available and in what can be used for cosmetic and other treatments including scar and tattoo removal hair removal cellulite and lipolysis In the second edition of Lasers and Energy Devices for the Skin th

Surgery of the Skin E-Book June K. Robinson, C. William Hanke, Daniel Mark Siegel, Alina Fratila, Ashish C Bhatia, Thomas E. Rohrer, 2010-04-27 Surgery of the Skin Procedural Dermatology by Dr June K Robinson et al will help you put the latest medical and cosmetic surgical procedures to work in your practice Taking a surgeon's eye view it discusses and illustrates new procedures such as botulinum toxin treatments and tumescent facelifts so you can provide your patients with the most effective cutting edge care Videos online show you how to perform these in depth surgical procedures in detail Improve surgical outcomes and avoid pitfalls with expert evidence based guidance Visualize every technique and concept with more than 1 000 full color photographs and state of the art drawings Stay on the cutting edge with in depth step by step descriptions of tumescent vertical vector facelifts blepharoplasty composite grafts Botox treatments soft tissue augmentation management of dysplastic nevi and melanoma and more Master the newest surgical techniques including botulinum toxin treatments blepharoplasty tumescent facelifts soft tissue augmentation composite grafts and the management of dysplastic nevi and melanoma Pulsed Metal Vapour Lasers C.E. Little, N.V. Sabotinov, 2012-12-06 A comprehensive up to date

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Rook's Dermatology Handbook Christopher E. M. Griffiths, Tanya O. Bleiker, Daniel Creamer, John R. Ingram, Rosalind C. Simpson, 2022-03-21 The reliable quick reference guide to clinical dermatology Rook's Dermatology Handbook condenses a wealth of clinical expertise into its accessible user friendly guide to the diagnosis and management of dermatological disorders With its contents carefully selected from the much respected Rook's Textbook of Dermatology this invaluable resource combines precise explanations with visual aids and a concise quick reference format to create an everyday tool for practitioners and students alike This innovative new text Provides quick answers to clinical questions in one concise and practical volume Collates and condenses selections from the acclaimed Rook's Textbook of Dermatology Features helpful illustrations that allow visualization of the clinical features of dermatological conditions Highlights essential information with easy to navigate tables charts and algorithms Includes investigations and management sections to help provide the best possible patient care Offers access to a complementary companion website Rook's Textbook of Dermatology has been the trusted companion of dermatologists the world over for four decades Rook's Dermatology Handbook builds upon this reputation by making the clinical practice of dermatology more accessible and immediate than ever before *Lasers in Dermatological Practice* Kabir Sardana, Vijay K Garg, 2014-08-31 Step by step guide to lasers in dermatological practice including conventional and advanced techniques Includes discussion on medicolegal issues and complications Nearly 300 images and illustrations **Current Catalog** National Library of Medicine (U.S.), 1992 First multi year cumulation covers six years 1965 70 [Atlas of Dermatoses in Pigmented Skin](#) Ranthilaka R. Ranawaka, Ajith P. Kannangara, Ajith Karawita, 2020-12-23 This book focuses on the representation of dermatological diseases in pigmented skin fills an important gap in the literature and facilitates better dermatological diagnosis when dealing with patients of various ethnicities It discusses over 400 diseases and their representations with the help of over 2000 high quality images and illustrations This book elaborates on each single disease using easy to follow schematics and a focused approach to facilitate reader learning Pursuing a comprehensive the book covers not only common skin diseases such as psoriasis lichen planus eczema erythrasma cutaneous tuberculosis leprosy leishmaniasis and oral submucous fibrosis but also rare tropical diseases such as sporotrichosis mycetoma rhinosporidiosis lobomycosis mucormycosis and subcutaneous zygomycosis It also addresses aesthetic concerns by covering hypopigmented and hyperpigmented disorders in pigmented skin such as guttate hypomelanosis vitiligo progressive macular hypomelanosis chemical or physical induced depigmentation melasma seborrheic keratosis lichen and macular amyloidosis Offering comprehensive coverage of dermatological disorders and diseases in pigmented skin the book is a must have resource for dermatology trainees and practitioners who treat or care for pigmented skin patients **Cosmetics Applications of Laser and Light-Based Systems** Gurpreet Ahluwalia, 2008-12-16 In recent decades cosmetic science has found new high potency bioactive ingredients that produce visibly superior skin benefits to the

consumer Light based devices including lasers and intense pulsed light systems have been used for years in the treatment of cutaneous vascular and pigmented lesions yet have only recently appeared in cosmetic applications beauty salons and spas Meanwhile ever more research and development is being performed with the intent of bringing them to the home use market This book is the first to introduce a range of currently used or under development laser and light based technologies that will provide greater cosmetic benefits to the consumer It explains the basic physics of light based technologies the bio physical principles behind their mechanism of action and their applications in many cosmetic procedures The fundamentals of skin and hair physiology relevant to the understanding of actions of various cosmetics are also explained as are cosmeceuticals topical drugs for cosmetic benefits non invasive and invasive options available for beauty treatments and how all this fits in with the emerging light based technologies Individual chapters are devoted to the various skin and hair conditions where light based systems are currently used Treatments discussed include the rejuvenation and toning of damaged skin skin resurfacing and microdermabrasion hair removal and growth reduction wrinkle reduction acne treatment and cellulite Finally the book examines the synergy of cosmeceuticals and topical bioactive agents with light based technologies safety issues a regulatory perspective for OTC marketing and concludes with a discussion of the business aspects related to home use of light based devices The first book to introduce this emerging technology to the personal care industry Explains their applications in many cosmetic procedures Devotes individual chapters to common skin and hair conditions

Genodermatoses Joel L. Spitz, 2005 Aimed at dermatologists pediatricians and family physicians this resource can be used for both board preparation and clinical practice Each syndrome is presented in easy to read two page spreads that include full body diagrams and clinical photographs The material is summarized in bulleted text that lists the patterns of inheritance prenatal diagnosis incidence age of presentation pathogenesis key features differential diagnosis lab findings management and prognosis Clinical pearls are interspersed through the text This second edition updates previous chapters and includes new syndromes such as PHACE AEC EEC Griscelli and Birt Hogg Dube Annotation 2004 Book News Inc Portland OR booknews com source inconne

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Lesperance, 2010-03-09 Through four editions Cummings Otolaryngology has been the world's most trusted source for comprehensive guidance on all facets of head and neck surgery This 5th Edition edited by Paul W Flint Bruce H Haughey Valerie J Lund John K Niparko Mark A Richardson K Thomas Robbins and J Regan Thomas equips you to implement all the newest discoveries techniques and technologies that are shaping patient outcomes You'll find new chapters on benign neoplasms endoscopic DCR head and neck ultrasound and trends in surgical technology a new section on rhinology and coverage of hot topics such as Botox Plus your purchase includes access to the complete contents of this encyclopedic reference online with video clips of key index cases Overcome virtually any clinical challenge with detailed expert coverage

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European Handbook of Dermatological Treatments Andreas D. Katsambas,Torello M. Lotti,2013-04-17 Dermatology is a specialty in the field of medicine which constantly changes at a vast rate Alongside technology new drugs methods and treatments are continuously developed for the treatment of all common skin diseases The first edition of the European Handbook of Dermatological Treatments received an overwhelming response from dermatovenereologists all over Europe Its easy to read format which is also used for this 2nd edition is aimed at helping the physician to obtain comprehensive information at a glance The three main sections listed alphabetically define the different diseases the drugs available and the various methods of treatment used in dermatological practice Each chapter begins with a brief section of the aetiology and pathogenesis of the skin disease and leads into the description of the clinical characteristics the diagnosis and the differential diagnosis Followed by a detailed discussion on treatment methods alternative methods are covered as well Each section ends with a reference list for further reading This new edition provides an excellent update including the newest developments of drugs methods and treatments in dermatological practice maintaining the clear structure and well proven format It is a very comprehensive and practical guide and should not be missed by those treating patients with skin diseases *Cutaneous Laser Surgery* Mitchel P. Goldman,Richard E. Fitzpatrick,1999 Stay on the cutting edge of laser technology with state of the art summaries on all cutaneous laser systems including carbondioxide argon pumped tunable dye copper vapor ruby flashlamp pumped pulsed dye Nd YAG and photoderm CUTANEOUS LASER SURGERY provides an unbiased review of each system listing the pros and cons of each for use on various types of lesions You ll also find new information on laser resurfacing photodynamic therapy and hair removal Includes thorough discussions of all laser systems Provides treatment options for pigmented lesions vascular lesions tattoos and laser resurfacing all in one book Guides you to the appropriate choice of procedure for each particular lesion Gives you an unbiased view of each laser system Illustrates techniques with clear before and after photography Provides step by step guidance through procedures Includes patient consent forms and patient handouts to save you valuable time **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1992

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